WEST BENGAL MEDICAL SERVICES CORPORATION LIMITED - GoWB
Through

United Nations Office for Project Services, 11 Golf Links, New Delhi-110 003

INTERNATIONAL COMPETITIVE BIDDING
FOR THE SUPPLY MEDICAL EQUIPMENTS FOR THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL

UNOPS IFB No. UNOPS/IPO/WBMSC/EQUIP/01/2010

Amendment –III dated November 12, 2010

The following amendments are hereby made to the bid document for the supply of Medical Equipments for the Hospitals and Medical Colleges of the Government of West Bengal, with reference to the above mentioned IFB:

Technical Specifications

Schedule 6(i) Electric operated Autoclave (2 Drum)

1. Stand-alone bench top autoclave 20 Litres, automatic .Single door, self sealing with high-quality silicone gasket

2. Chamber diameter ca 25 cm, depth ca 45 cm. The autoclave should have double wall sheet metal with suitable insulation in between walls.

3. Pre-set automatic cycles for unwrapped instruments, wrapped instruments/packs;

4. Slow exhaust and drying cycles

5. Two automatic programmes, approx: 2,2 bar at 134 degree C and 1,1 bar at 121 degree C. The equipment should have automatic pressure control switch / automatic water control device to ensure that the equipment does not run dry.

6. Panel reports temperature, pressure and time, low-water level, as well as system errors (f.e. door). Temperature display should be digital and pressure display should be analogue.
7. Fit with 5 L water reservoir, manual fill, autonomy for at least 10 cycles

8. Power shut-off upon completion of cycle

9. With 3 removable shelves

10. Double safety door locking device

11. Safety feature protect against over-pressure and over-temperature

12. Audible and visual alert upon cycle interruption or completion

13. Unwrapped cycle time: cold 30 min, hot 20 min
14. Control panel with alpha-numerical display and cycle indicators
15. Complete with 3 instruments trays
16. Power requirements: 220 V/50 Hz single phase
17. Power consumption: 3000 W
18. Device is produced by ISO 9001 certified manufacturer
19. Device is safety certified according CE 93/42 or FDA 510k or equivalent

Supplied with:

1. 1 x set of 3 matching instrument baskets
2. 1 x set of 3 matching sterilizing drums
3. 1 x roll of sterilization indicator TST control spots
4. 1 x box paper sheets, crepe, for sterilization pack
5. 1 x roll tape, adhesive, for sterilization pack
6. 4 gaskets
7. 1 x spare set of fuses
8. User manual with trouble shooting guidance, in English
9. Technical manual with maintenance and first line technical intervention instructions, in English
10. List of priced accessories
11. List of priced spare parts
12. List with name and address of technical service providers in India
13. Training and installation at end-user site
14. Proposal for full service AMC, year 1 to 5, covering
    (i) 4 preventive maintenances per year,
    (ii) on-call technical interventions, spare parts and travel

Schedule 6(ii) Autoclave (Single Drum)

Features	Autoclave should be run on electric power having a dimension of at least 9" diameter and 11" height. It should be made out of best quality aluminum gauze. Locking system should be by turning and fixing lead into groove. There should be a triple safety measure – Gasket release, safety valve and steam release.
(a) Capacity	11 litres
(b) Sterilizing Temperature	Sterilizing temperature should be 120 – 135^{o} C
Thickness	Wall thickness of the inner chamber as well as lid should be of minimum 3mm.
Power Supply	230+/-10Volts. 50Hz.
Standard	The apparatus should confirm to applicable IS standard with latest amendments or equivalent international standards covering Markings, Safety requirements with recommendations of safe operations.

Schedule 7(i) Drum for autoclave

1. Stainless steel seamless cylindrical sterilizing drum
2. Austenitic stainless steel, composition: 8 to 10% nickel, 18 to 20% chromium
3. Lateral air vents, manually closed after sterilization
4. Thickness steel: 0.8 mm
5. Diameter : 7" +/- 0.5"
6. Height : 7" +/- 0.5"
7. Device is produced by ISO 9001 certified manufacturer (Certificate to be submitted)

Schedule 7(ii) DRUM FOR AUTOCLAVE

1. Stainless steel cylindrical sterilizing drum
2. Austenitic stainless steel, composition: 8 to 10% nickel, 18 to 20% chromium
3. Lateral air vents, manually closed after sterilization
4. Thickness steel: 0.8 mm
5. Diameter : 10" +/- 1"
6. Height : 18" +/- 1"
7. Device is produced by ISO 9001 certified manufacturer (Certificate to be submitted)

Schedule 8(i) INSTRUMENT STERILIZER (MEDIUM)

Material	Conforming to Designation 04Cr18Ni10
Design	The sterilizer shall consist of a seamless shell, having a hand-operated lid at the upper end. It shall be designed to operate on electricity, gas or kerosene (heat sources) either independently or in combination, as desired by the purchaser.
Dimensions	The nominal inside dimensions of the shell shall be as given below, subject to a tolerance of ±2percent. 430 mm (L) X 200 mm(W) X 150 mm(H)
	The thickness of the stainless steel sheet used for shell, tray and lid shell be 0.90mm subject to the tolerances on thickness as specified in the relevant Indian standard. However, thickness of shell tray and lid shall not be less than 0.70mm at any place, after drawing and for handle lever, it shall be 3.00mm. the minimum thickness for handle link-connecting the handle lever and lid shall be 1.5mm.
Construction	The shell shall be pressed to form a seamless container. The rim shall be so formed so as to prevent excessive steam escape. Provision shall be made at the bottom of the shell to place it properly on the table.
	The lid shall be made seamless, dished and shall be designed to prevent excessive steam escape and restrict the condensate within the shell, but in any case it shall not buckle, warp, or twist with load.
Construction	The corners shall be rounded to suit those of the shell. The lid shall open fully (between 55° and 85°) by single operation from its closed position. A provision shall be made to connect the link end of the handle mechanism for simultaneous opening and closing of the tray and lid. At the opening of the lid between 55° and 85° the tray shall be able to come to the top level of the shell.
	A mechanism connected to the lid shall be such that when the lid is open, a bracket or rest for instruments tray shall bring the seamless tray well out of the water even when the water is at the highest level. The tray bottom shall be perforated to allow

Material	Conforming to Designation 04Cr18Ni10
	easy drain-out or entrance of water when the tray is being lifted or lowered in the sterilizer. Handles shall be provided for handling the tray and the tray shall be convenient for fitting in or removal from the sterilizer. When the tray is loaded as given below, with load uniformly distributed, the lid shall close slowly and without bang.
	The tray shall be of such a design so as to take a total load of Large 40 N. the depth of tray shall be Min 25mm.
Functional requirements	A drain-out connection shall be provided to facilitate draining of the sterilizer when desired.
	The tap handle knob and lid operating handle shall be fitted with suitable grips of thermally insulating material. The metal parts under the grips shall be completely covered so as no to come in contact with the operator.
Methods of operation of Sterilizer Electrical Operation	Sterilizers shall be capable of operation on the heat sources detailed in 8.2 to 8.4 as selected by the purchaser and shall satisfy the requirements specified therein.
	Electrically operated sterilizers shall have a single-phase, 3pin connection and the loading shall be large 1.5 kW
	An indicator lamp shall be provided on the sterilizer to indicate by glowing when the instrument is 'ON'. The entire electrical circuit shall be insulated from the sterilizer and the leakage current shall be not more than 210µA or 300µA, when tested in accordance with IS 302: 1979. It shall also be capable of withstanding a high voltage test of 1000V for one minute between any point of supply and earth.
Electrical Operation	The wires used shall be heat resistant and the wiring shall be neatly laid out. The minimum current carrying capacity of wire shall be 15A.
	Heating Element Heating element shall conform to IS 4159:1983. It shall be of easily replaceable type and fitted with either built-in ejector device or built in thermal cut out system. The heating element shall operate on up to a maximum voltage of 250v single-phase 50 Hz AC.
	Thermostat Thermostat shall be capable of ensuring boiling water at sea level with a differential of 5°C
Finish	All stainless steel parts shall be finished smooth and polished bright or strain finish reasonably free from wrinkles and bulges.
	The brass cock shall be plated chromium over nickel in accordance with service grade No. 2 of IS 4827: 1983
Marking	The sterilizers shall be legibly and indelibly marked with the following: a. Identification mark of the manufacturer. b. Wattage, voltage, phase and cycle of electrically operated sterilizers, c. Not to be used in anaesthetizing sites, and d. Instrument does not give sterility
Instruction manual	Each sterilizer shall be accompanied by any instruction manual which shall contain information regarding instruction, directions and operation of the sterilizer and

Material	Conforming to Designation 04Cr18Ni10
	routine maintenance and service. It shall contain instruction to use soft water to minimize scaling.
Packing	As agreed to between the purchaser and the supplier before awarding the contract.

Schedule 8(ii) INSTRUMENT STERILIZER (SMALL)

Material	Conforming to Designation 04Cr18Ni10
Design	The sterilizer shall consist of a seamless shell, having a hand-operated lid at the upper end. It shall be designed to operate on electricity, gas or kerosene (heat sources) either independently or in combination, as desired by the purchaser.
Dimensions	The nominal inside dimensions of the shell shall be as given below, subject to a tolerance of ±2percent. 300 mm (L) X 150 mm(W) X 125 mm(H)
	The thickness of the stainless steel sheet used for shell, tray and lid shell be 0.90mm subject to the tolerances on thickness as specified in the relevant Indian standard. However, thickness of shell tray and lid shall not be less than 0.70mm at any place, after drawing and for handle lever, it shall be 3.00mm. the minimum thickness for handle link-connecting the handle lever and lid shall be 1.5mm.
Construction	The shell shall be pressed to form a seamless container. The rim shall be so formed so as to prevent excessive steam escape. Provision shall be made at the bottom of the shell to place it properly on the table.
	The lid shall be made seamless, dished and shall be designed to prevent excessive steam escape and restrict the condensate within the shell, but in any case it shall not buckle, warp, or twist with load.
Construction	The corners shall be rounded to suit those of the shell. The lid shall open fully (between 55° and 85°) by single operation from its closed position. A provision shall be made to connect the link end of the handle mechanism for simultaneous opening and closing of the tray and lid. At the opening of the lid between 55° and 85° the tray shall be able to come to the top level of the shell.
	A mechanism connected to the lid shall be such that when the lid is open, a bracket or rest for instruments tray shall bring the seamless tray well out of the water even when the water is at the highest level. The tray bottom shall be perforated to allow easy drain-out or entrance of water when the tray is being lifted or lowered in the sterilizer. Handles shall be provided for handling the tray and the tray shall be convenient for fitting in or removal from the sterilizer. When the tray is loaded as given below, with load uniformly distributed, the lid shall close slowly and without bang.
	The tray shall be of such a design so as to take a total load of Large 40 N. the depth of tray shall be Min 25mm.
Functional requirements	A drain-out connection shall be provided to facilitate draining of the sterilizer when desired.
	The tap handle knob and lid operating handle shall be fitted with suitable grips of

Material	Conforming to Designation 04Cr18Ni10
	thermally insulating material. The metal parts under the grips shall be completely covered so as no to come in contact with the operator.
Methods of operation of Sterilizer Electrical Operation	Sterilizers shall be capable of operation on the heat sources detailed in 8.2 to 8.4 as selected by the purchaser and shall satisfy the requirements specified therein.
	Electrically operated sterilizers shall have a single-phase, 3pin connection and the loading shall be large 1.0 kW
	An indicator lamp shall be provided on the sterilizer to indicate by glowing when the instrument is 'ON'. The entire electrical circuit shall be insulated from the sterilizer and the leakage current shall be not more than 210µA or 300µA, when tested in accordance with IS 302: 1979. It shall also be capable of withstanding a high voltage test of 1000V for one minute between any point of supply and earth.
Electrical Operation	The wires used shall be heat resistant and the wiring shall be neatly laid out. The minimum current carrying capacity of wire shall be 15A.
	Heating Element Heating element shall conform to IS 4159:1983. It shall be of easily replaceable type and fitted with either built-in ejector device or built in thermal cut out system. The heating element shall operate on up to a maximum voltage of 250v single-phase 50 Hz AC.
	Thermostat Thermostat shall be capable of ensuring boiling water at sea level with a differential of 5°C
Finish	All stainless steel parts shall be finished smooth and polished bright or strain finish reasonably free from wrinkles and bulges.
	The brass cock shall be plated chromium over nickel in accordance with service grade No. 2 of IS 4827: 1983
Marking	The sterilizers shall be legibly and indelibly marked with the following: e. Identification mark of the manufacturer. f. Wattage, voltage, phase and cycle of electrically operated sterilizers, g. Not to be used in anaesthetizing sites, and h. Instrument does not give sterility
Instruction manual	Each sterilizer shall be accompanied by any instruction manual which shall contain information regarding instruction, directions and operation of the sterilizer and routine maintenance and service. It shall contain instruction to use soft water to minimize scaling.
Packing	As agreed to between the purchaser and the supplier before awarding the contract.

All other terms and conditions of the bid document remain unaltered.

In case of any further information/clarification, they may contact UNOPS or WBMSC through e-mail at procurementinoc@unops.org or wbmsc@wbhealth.gov.in respectively; individual visits, in person, to UNOPS or WBMSC offices shall not be entertained. All requests for seeking clarification should cite the subject tender and should be received by the deadline indicated for the purpose, above.